

## M 5.9, 2km N of Kadingilan, Philippines

Origin Time: 2019-11-18 13:22:10 UTC (Mon 21:22:10 local)

Location: 7.6193° N 124.9088° E Depth: 15.2 km

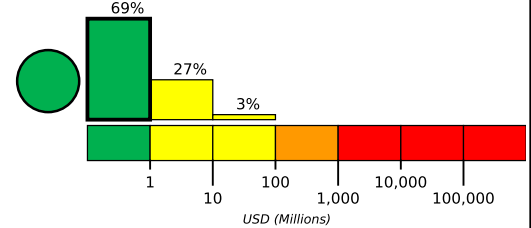
Created: 1 week, 1 day after earthquake

### Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

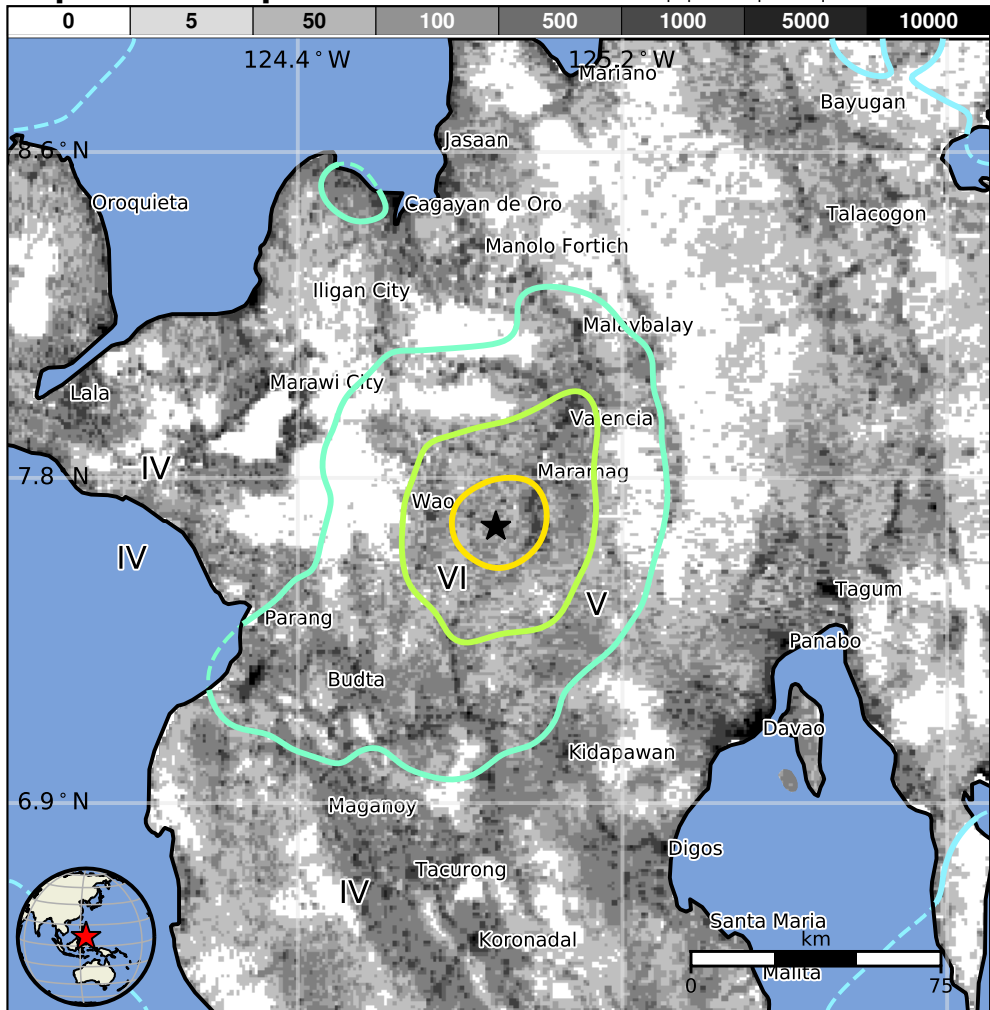


### Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) |                       | —*       | 31k*   | 12,253k | 3,195k   | 639k     | 215k        | 0          | 0        | 0        |
|---|-----------------------|----------|--------|---------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY   |                       | I        | II-III | IV      | V        | VI       | VII         | VIII       | IX       | X+       |
| PERCEIVED SHAKING                       |                       | Not felt | Weak   | Light   | Moderate | Strong   | Very Strong | Severe     | Violent  | Extreme  |
| POTENTIAL DAMAGE                        | Resistant Structures  | None     | None   | None    | V. Light | Light    | Moderate    | Mod./Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | None     | None   | None    | Light    | Moderate | Mod./Heavy  | Heavy      | V. Heavy | V. Heavy |

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are reinforced concrete and unknown/miscellaneous types construction.

### Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1987-05-23 | 77         | 5.7  | VII(70k)   | 1              |
| 1990-02-08 | 240        | 6.7  | VIII(96k)  | 1              |
| 2002-03-05 | 193        | 7.5  | VIII(12k)  | 15             |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

| MMI | City           | Population |
|-----|----------------|------------|
| VII | Kadingilan     | 7k         |
| VII | Dancagan       | 5k         |
| VII | Don Carlos     | 20k        |
| VII | Kibawe         | 5k         |
| VII | Osias          | 3k         |
| VII | Kitaotao       | 4k         |
| V   | Cotabato       | 179k       |
| V   | Budta          | 1,274k     |
| V   | Cagayan de Oro | 445k       |
| IV  | Koronadal      | 126k       |
| IV  | Davao          | 1,213k     |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us700069f4#pager>

bold cities appear on map.

(k = x1000)

Event ID: us700069f4